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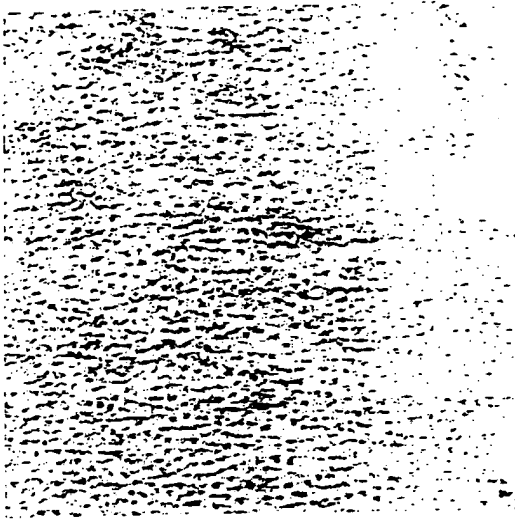


FIG. 1A

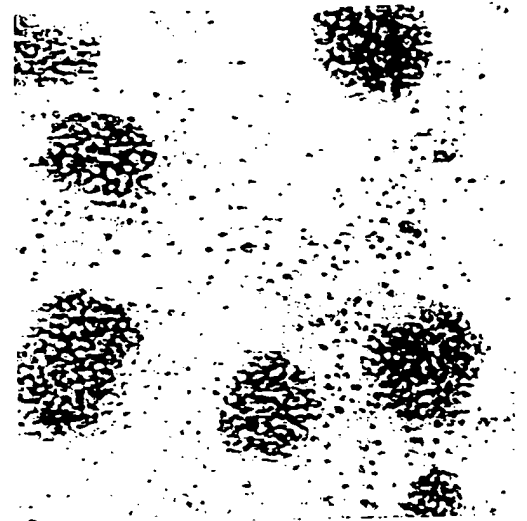


FIG. 1B

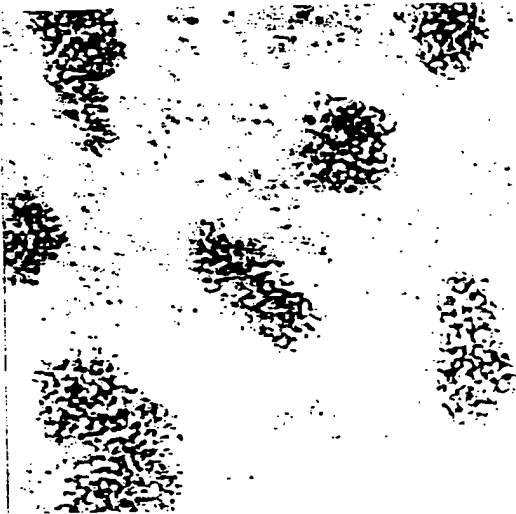


FIG. 1C

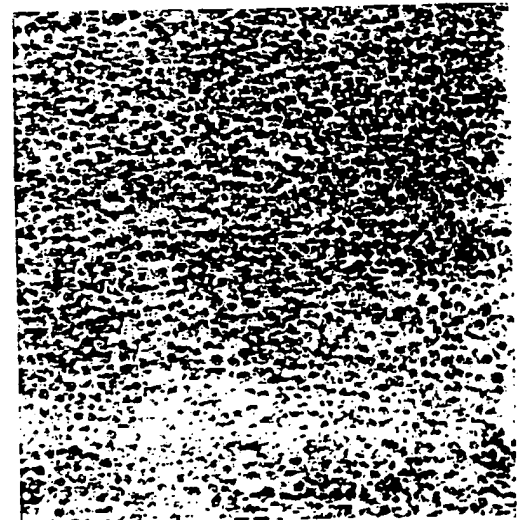
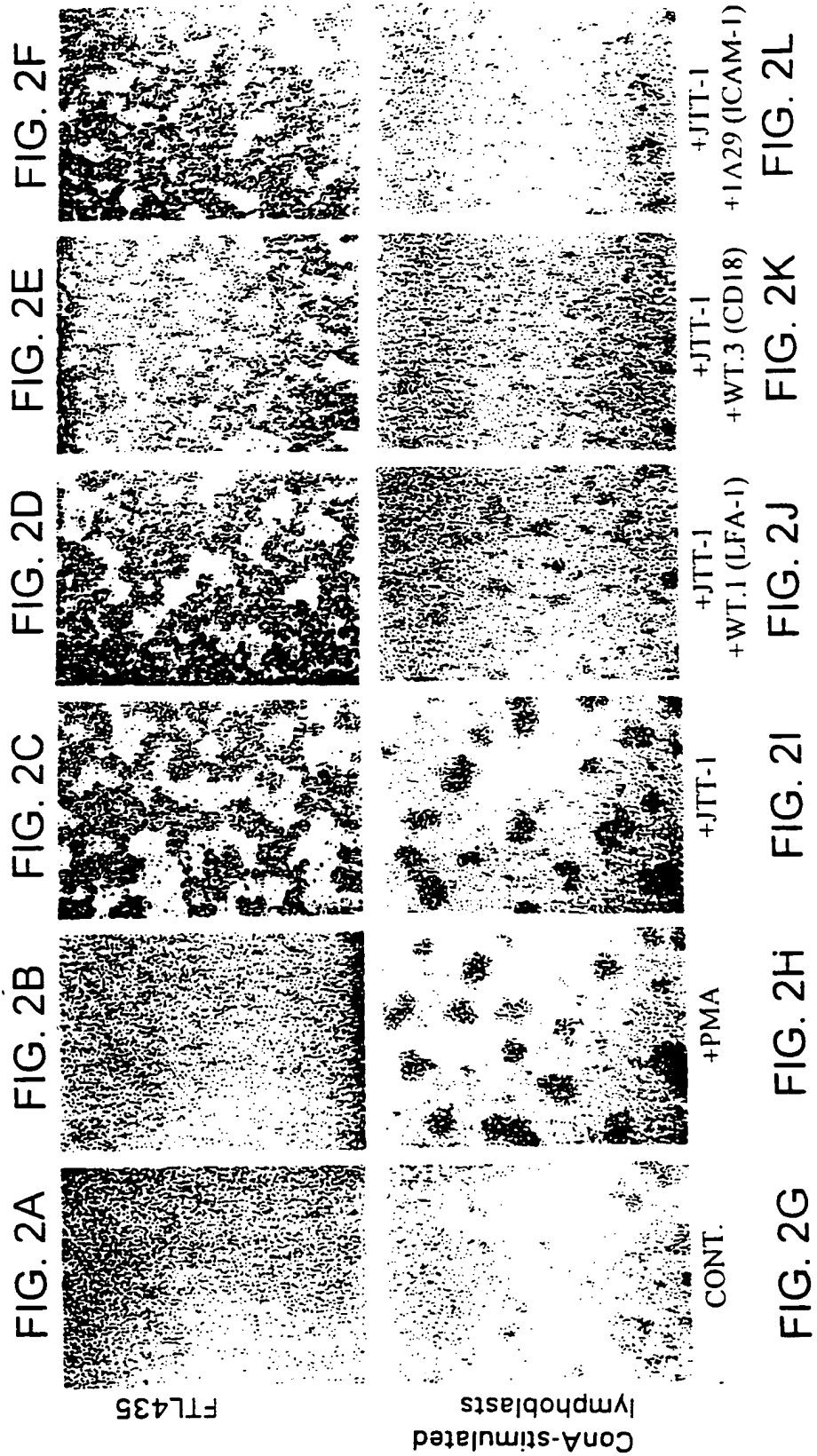


FIG. 1D



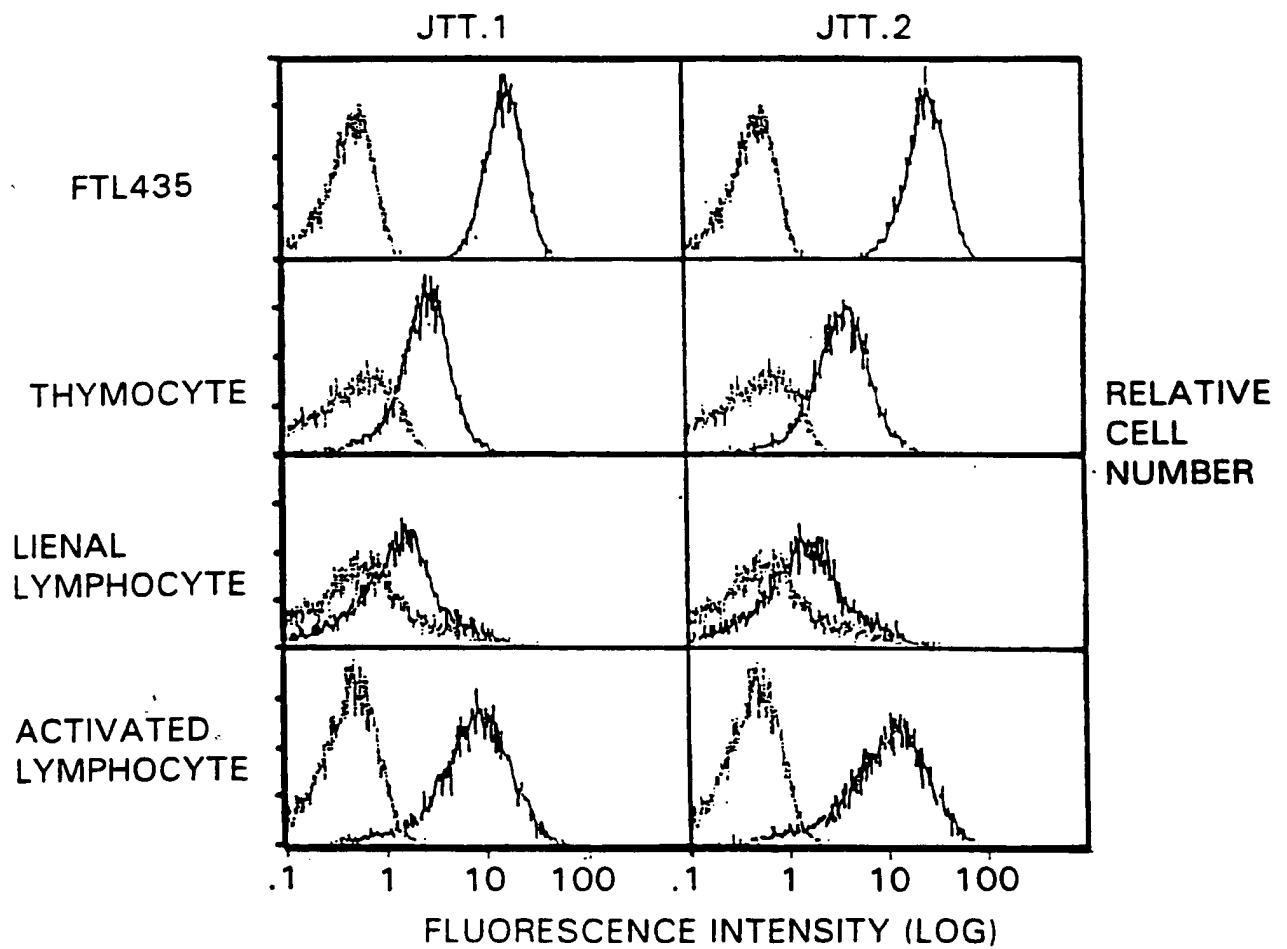


FIG. 3

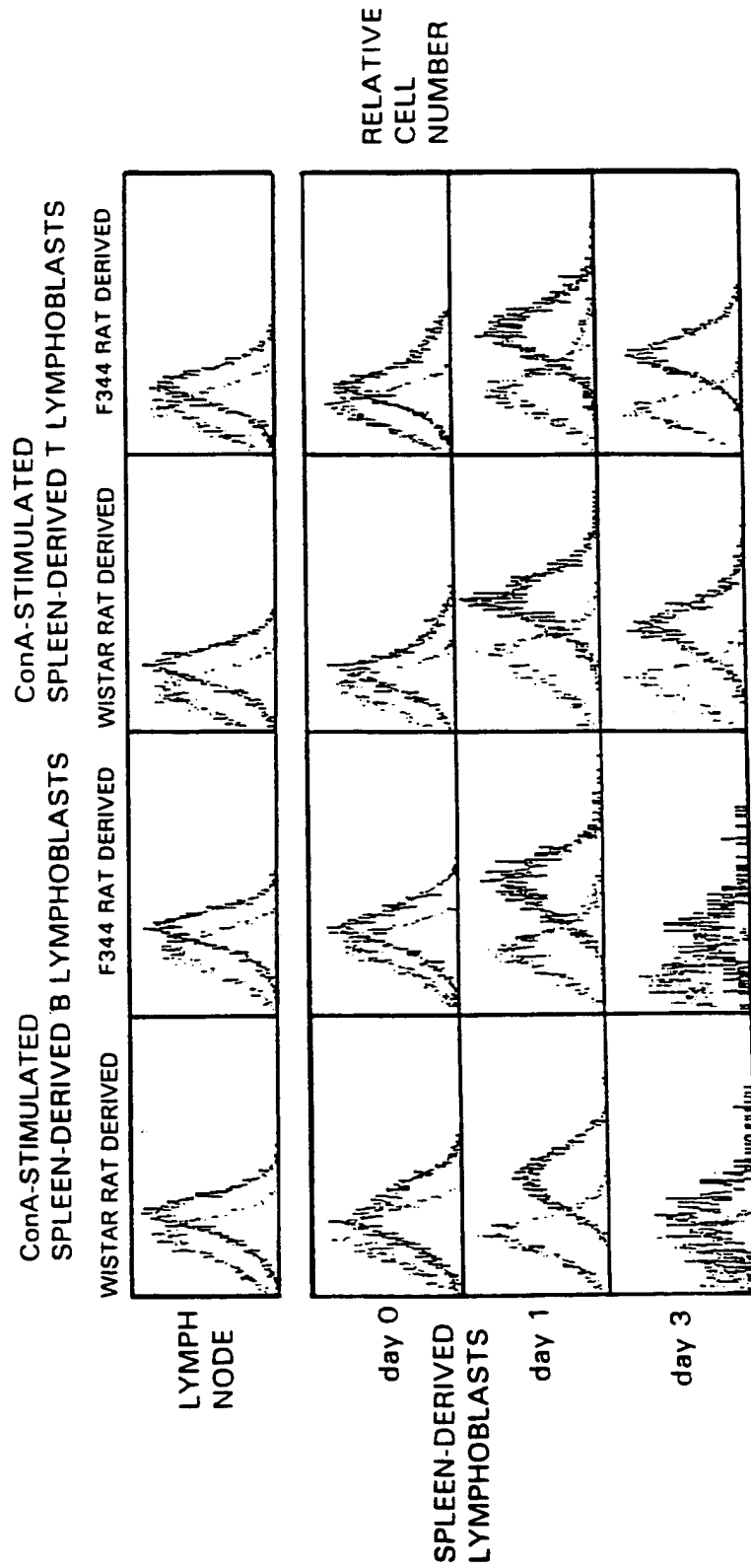


FIG. 4

Applicant(s): Takuya Tamatani et al.

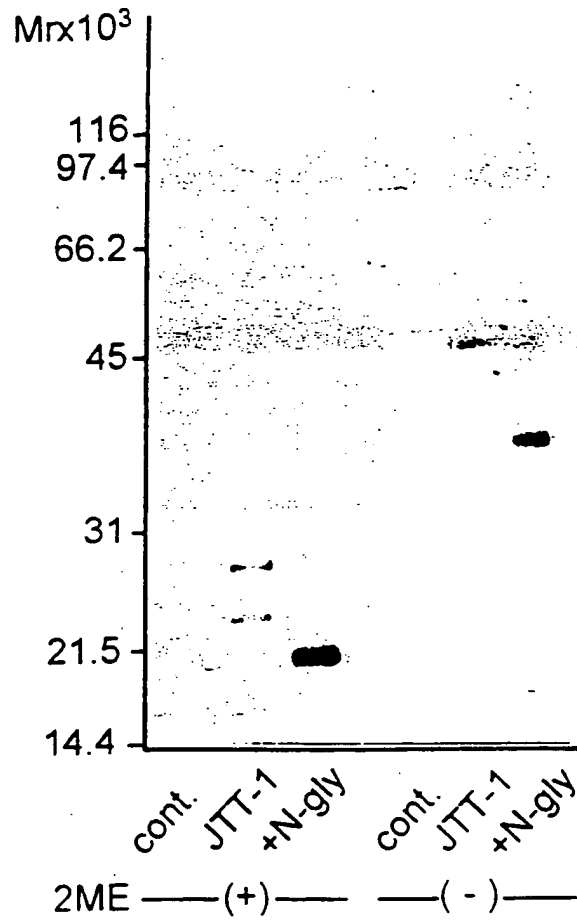
CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

FIG. 5



FIG. 6A

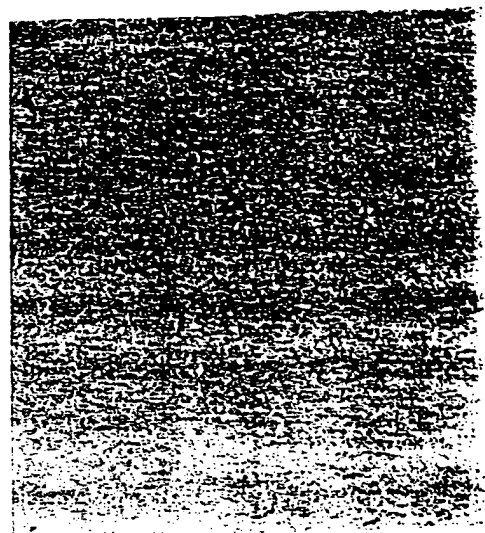


FIG. 6B

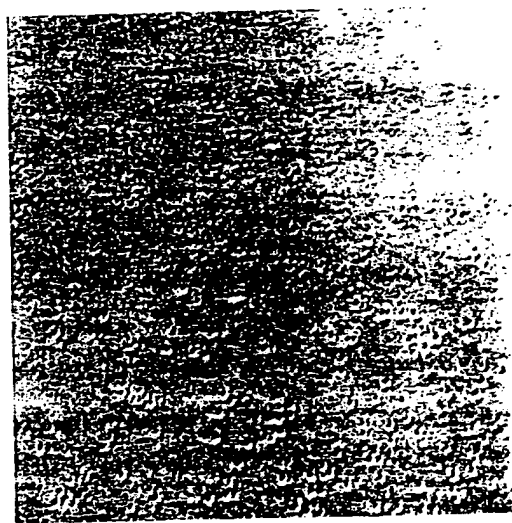


FIG. 6C

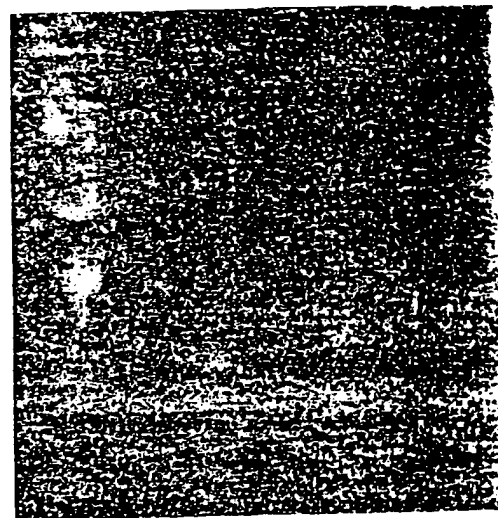


FIG. 6D

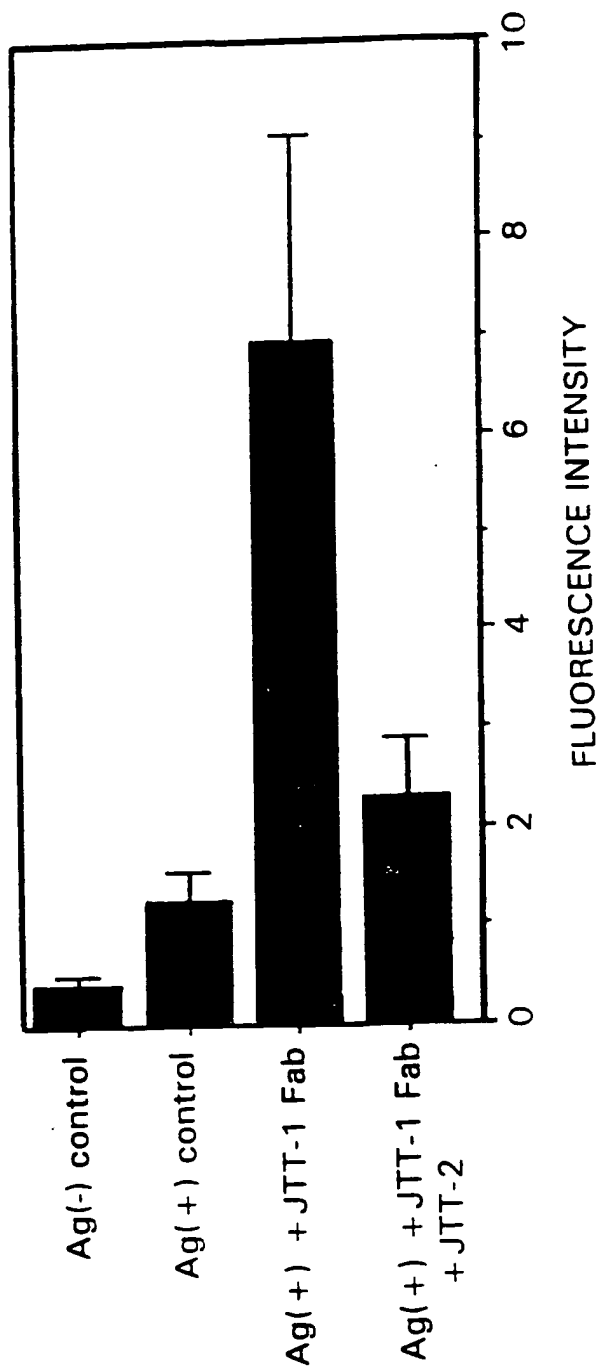


FIG. 7



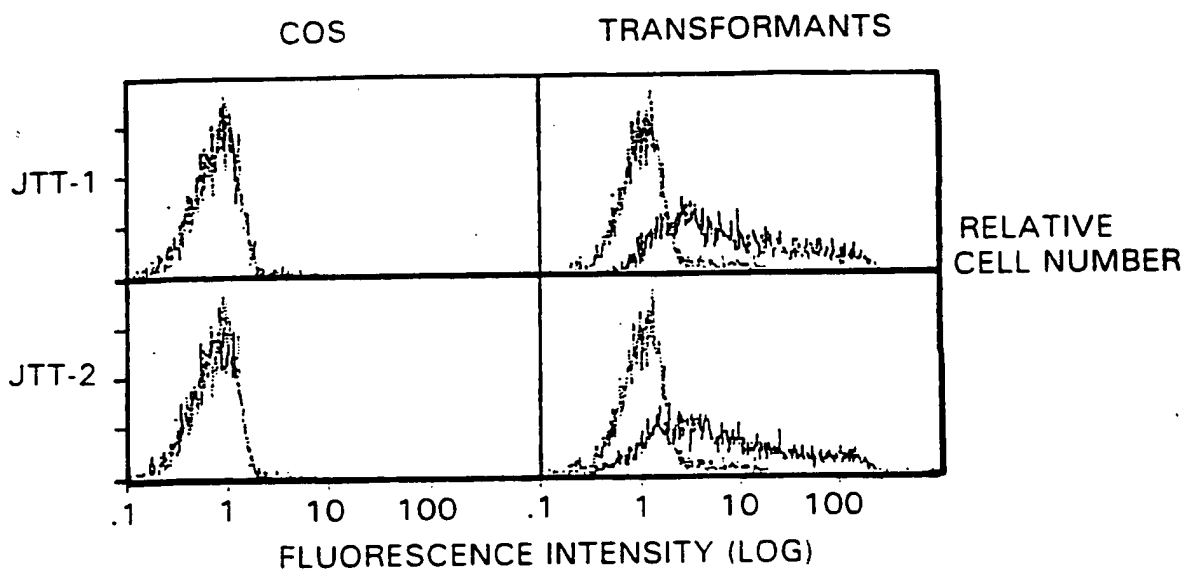


FIG. 8

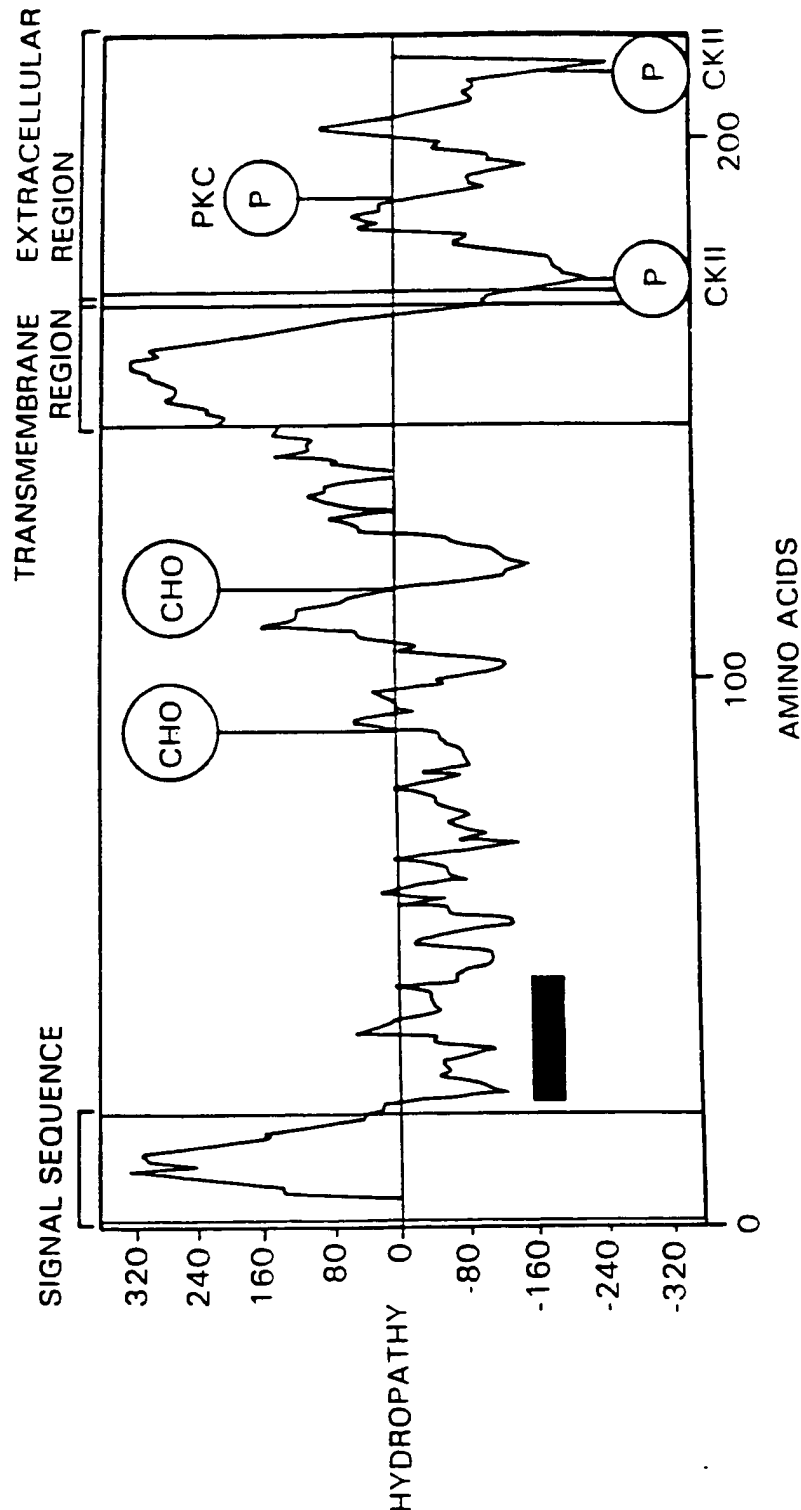


FIG. 9

Applicant(s): Takuya Tamatani et al.

CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

human	M K S G L W Y F F L	L	F C F L I K V L T G E I N G S A N Y E M F I F H N G G V Q I	L C K Y P D I V Q Q	50
rat	M K P Y F S C V F V	V	F C F L I K L L T G E L N D L A N H R M F S F H D G G V Q I	S C N Y P E T V Q Q	50
rat mutant	M K P Y F S C V F V	V	F C F L I K L L T G E L N D L A N H R M F S F H D G G V Q I	S C N Y P E T V Q Q	50
mouse	M K P Y F S C H V F V	V	F C F L I R L L T G E I N G S A D H R M F S F H D G G V Q I	S C K Y P E T V Q Q	50
consensus	M K P Y F . . V F V	V	F C F L I K L L T G E . N . . A N H R M F S F H . G G V Q I	S C . Y P E T V Q Q	50
human	F K M Q L L K G G Q	Q	I L C D D L T K T K G S G N T V S I K S L K F C H S Q L C C Q L	L S N N S V S F F L Y N A D	100
rat	L K M Q L L F K D R E	R	V L C D D L T K T K G S G N T V S I K N P M S C P Y Q L S N N S V S F F L Y N A D	L S N N S V S F F L Y N A D	100
rat mutant	L K M Q L L F K D R E	R	V L C D D L T K T K G S G N T V S I K N P M S C P Y Q L S N N S V S F F L Y N A D	L S N N S V S F F L Y N A D	100
mouse	L K M R L L F R E R E	R	V L C E L T K T K G S G N A V S I K N P M L C L Y H L S N N S V S F F L Y N A D	L S N N S V S F F L Y N A D	100
consensus	L K M Q L L F K . R E	R	V L C D L T K T K G S G N T V S I K N P M . C . Y Q L S N N S V S F F L Y N . D	L S N N S V S F F L Y N . D	100
human	H S H A N Y Y F C N	N	L S I F D P P P P F F K - V T L T G G Y L H I Y E S Q L C C Q L	K F W L P I G C A A	149
rat	S S Q G S Y F L C S	S	L S I F D P P P P P F F Q E K N L S G G Y L L I Y E S Q L C C Q L	K L W L P V G C A A	150
rat mutant	S S Q G S Y F L C S	S	L S I F D P P P P P F F Q E K N L S G G Y L L I Y E S Q L C C Q L	K L W L P V G C A A	150
mouse	S S Q G S Y Y F C S	S	L S I F D P P P P P F F Q E R N L S G G Y L H I Y E S Q L C C Q L	K L W L P V G C A A	150
consensus	S S Q G S Y . . C S	S	L S I F D P P P P F F Q E . N L S G G Y L . I Y E S Q L C C Q L	K L W L P V G C A A	150
human	F V V V C I L L G C I	I	L I C W L T K K K K Y S S S V H D P N S E Y M F M R A V N T A	K K S R L T D V T L	199
rat	F V A A L L F G C I	I	F I V W F A K K K K Y S S S V H D P N S E Y M F M R A V N T A	K K S R L A G M T S	200
rat mutant	F V A A L L F G C I	I	F I V W F A K K K K Y S S S V H D P N S E Y M F M R A V N T A	K K S R L A G M T S	200
mouse	F V V V L L F G C I	I	L I I I W F S K K K K Y S S S V H D P N S E Y M F M R A V N T A	K K S R L A G V T S	200
consensus	F V . . L L F G C I	I	L I . . W F . K K K K Y . S S V H D P N S E Y M F M R A V N T A	K K S R L A G . T	200
human	- - - - -	-	- - - - -	- - - - -	199
rat	- - - - -	-	- - - - -	- - - - -	200
rat mutant	L R A L G R G E H S	S	C Q D R N	- - - - -	216
mouse	- - - - -	-	- - - - -	- - - - -	200
consensus	- - - - -	-	- - - - -	- - - - -	216

FIG. 10

JTT1	M	-	-	-	K S G L	- - W	- Y F F L	F C L R	I K V I T G E I N G	S A N Y E M F I F H
CD28	M	-	L	-	R L L L A	- - -	- L N L F	P S	O V T G N K I L V	K Q S P M L V A Y D
CTLA4	M	A C L G F O R H K	-	-	A O L N L A A R T W	- P C T L L F F L L F	-	I P V F C K A M H V	A O P A V V L A S S	
consensus	M	- L - - - - -	- l . L	- w	- l . L F	- - -	- l . L F	- i . v	. o . . . . A . .	
JTT1	N G G V Q I L	C K Y	- - P D I V Q Q F K	M Q L L K G G Q I L	- - -	D L T K T	K G S G N T V S I K			
CD28	N A V - N L S C K Y	S Y N L F S R E F R	A S L H K G L D S A	V E V - C	V V V Y G N	Y S Q Q L Q V Y S K				
CTLA4	R G I A S F V C E Y	A S P G K A T E V R	V T V L R Q A D S O	V T E V C A A - -	T	Y M T G N E L T F L				
consensus	N G . . . .	C K Y	. p . . . e f r	. l l k g . d s .	v . - c	y . . g n . v . . k				
JTT1	S L K F C H S Q L S	N N S V S F F L Y N	L D H S H A N Y Y F	C N L S I F D P P P	F - -	k v t l t g g				
CD28	T G F N C D G K L G	N E S V T F Y L Q N	L Y V N Q T D I Y F F	C K I E V M Y P P P	Y L D N E K S N G T					
CTLA4	D D S I C T G T S S	G N Q V N L T I Q G	L R A M D T G L Y I	C K V E L M Y P P P	Y Y -	l g i g n g t				
consensus	. . . .	c . g . l s	n n s v . f . l o n	. . . . t . y f	c k . e . m y p p p	y . . . . n g t				
JTT1	Y L H I Y E S Q L C	C Q L K F	- - -	- W -	L P I G C A	A F V V V C I L G C	- I L I C W L T K K			
CD28	I I H V K G K H L C	P S P L F P G P S K	- - -	p f w v l v v v g g	V L A C Y S L L V T	V A F I I F W V R S				
CTLA4	Q I Y V I D P E P C	P D S D F	- - -	- L L W I L A A V S S	G L F F Y S F L L T	- A V S L S K M L K				
consensus	. I H V . . . . L C	p . . . e	- - -	. . . . v . . .	. l . . . y s .	. l . t . . . . k				
JTT1	[K] Y S S S V H D P N	G E Y N F M [M]	R R A V N	T A K K S R	- - -	L T D V T L	- -			
CD28	K R S - - - R L L H	S D Y M N M T P R R	P P G P T R K H Y Q P	Y A P P R D F A A Y	R S					
CTLA4	K R S - - - P L T T	G V Y V K M P P T E	P E - C E K Q F Q P	Y - - - F I P I	N -					
consensus	[K] R S - - - . L . .	G . Y M . M .	p . . . k . . q p y	- - - . d f . . .	.					

FIG. 11

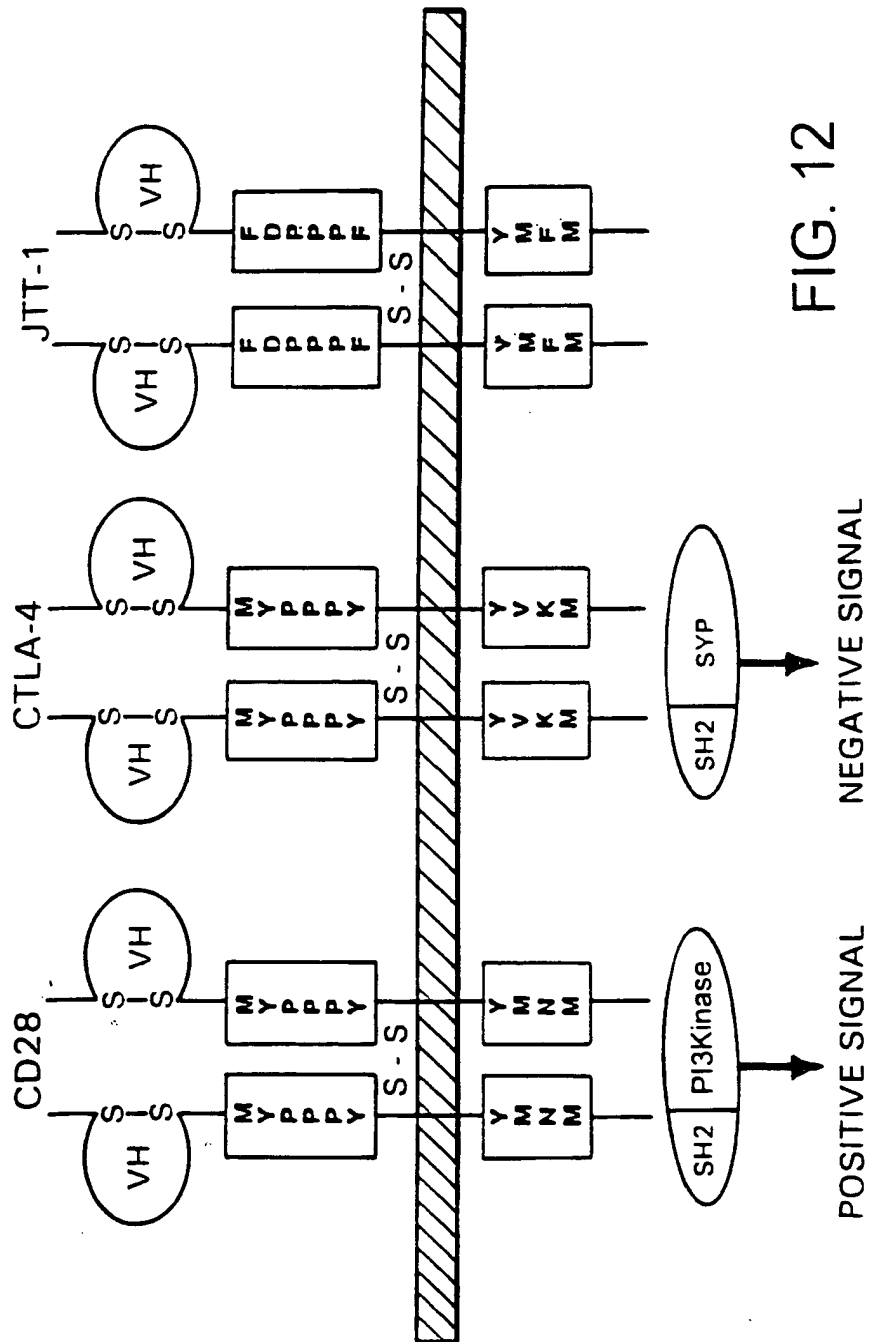


FIG. 12

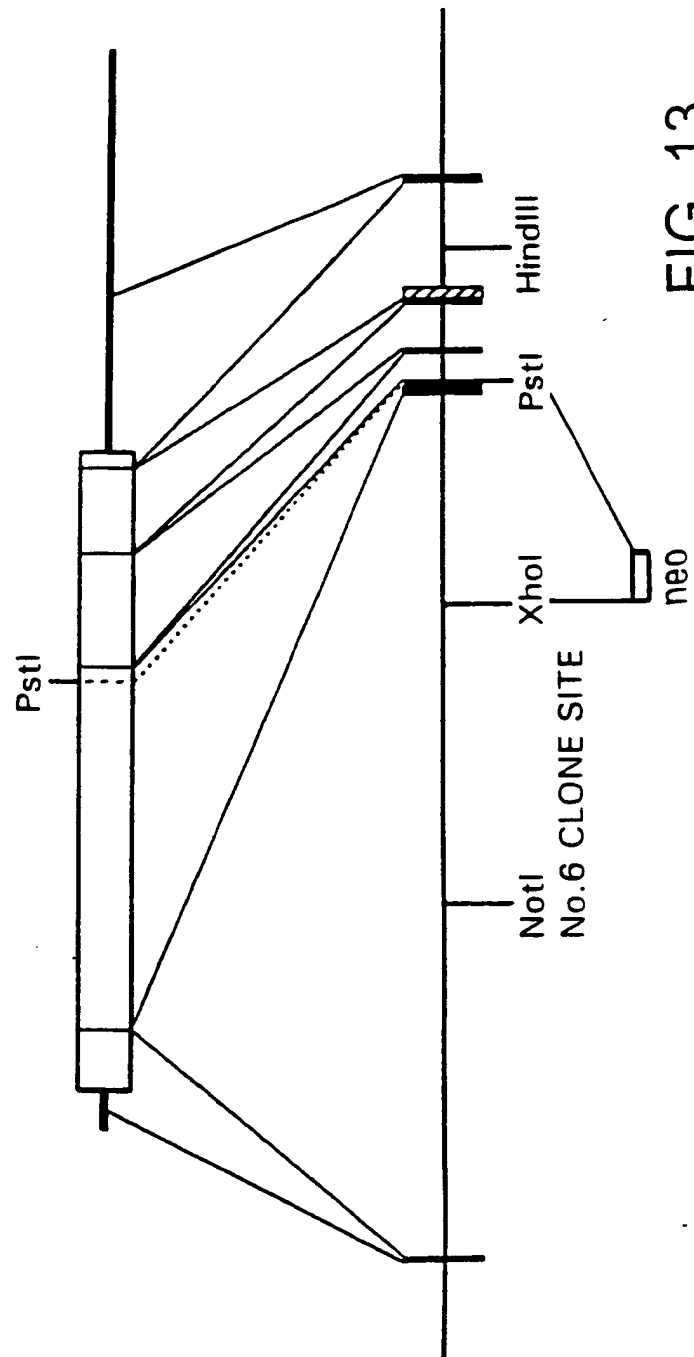
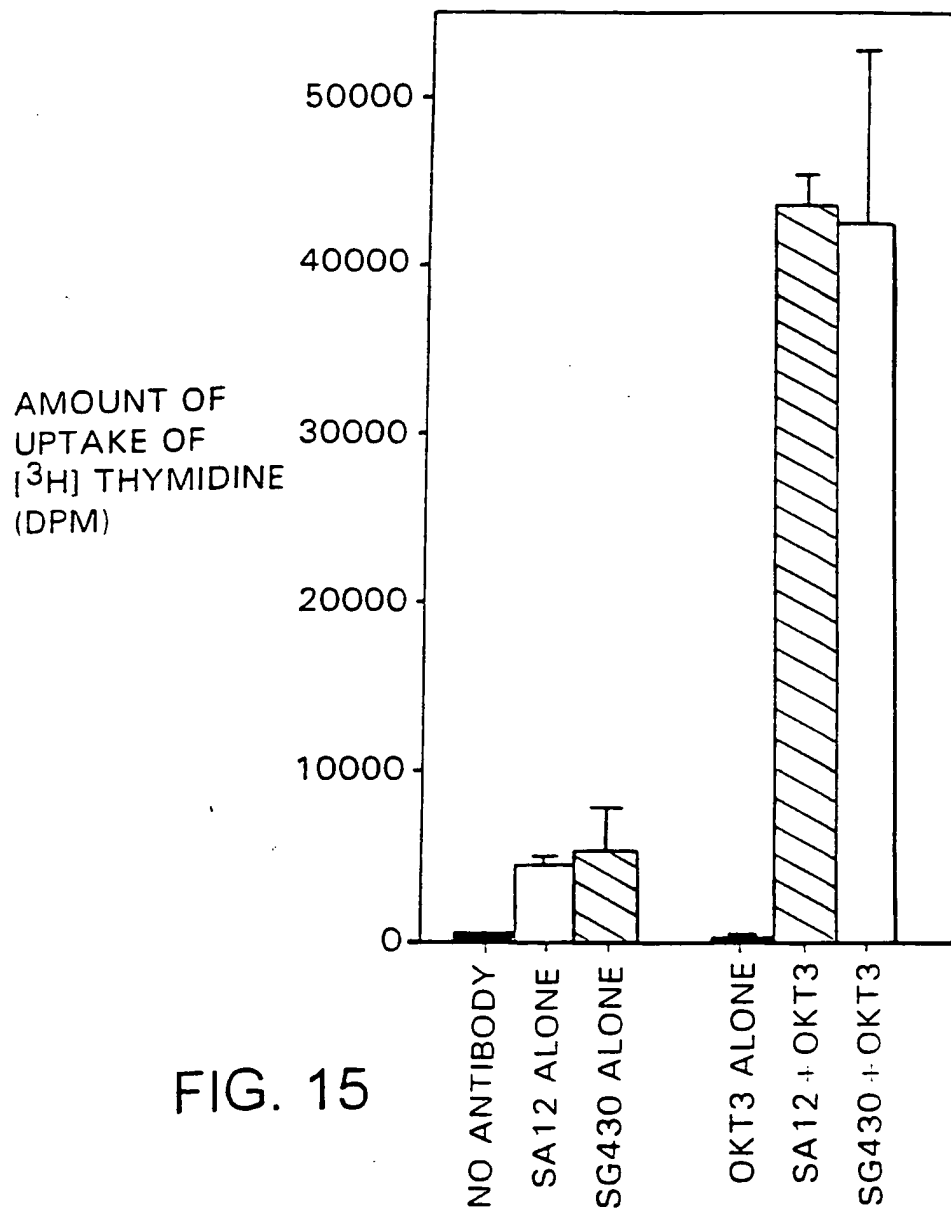


FIG. 13

rat	50	
rat mutant	50	
consensus	50	
		<div>           MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ            MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ            MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ         </div>
rat	100	
rat mutant	100	
consensus	100	
		<div>           LKMQLFKDRE VLCDLTKTKG SGNVTSIKNP MSCPYQLSNN SVSFFLDNAD            LKMQLFKDRE VLCDLTKTKG SGNVTSIKNP MSCPYQLSNN SVSFFLDNAD            LKMQLFKDRE VLCDLTKTKG SGNVTSIKNP MSCPYQLSNN SVSFFLDNAD         </div>
rat	150	
rat mutant	150	
consensus	150	
		<div>           SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA            SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA            SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA         </div>
rat	200	
rat mutant	200	
consensus	200	
		<div>           FVAALLFGCI FIVWFAKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG MTS            FVAALLFGCI FIVWFAKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG TAP            FVAALLFGCI FIVWFAKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG ...         </div>
rat	200	
rat mutant	216	
consensus	216	
		<div>           LRALGRGEHS SCQDRN            .....         </div>

FIG. 14





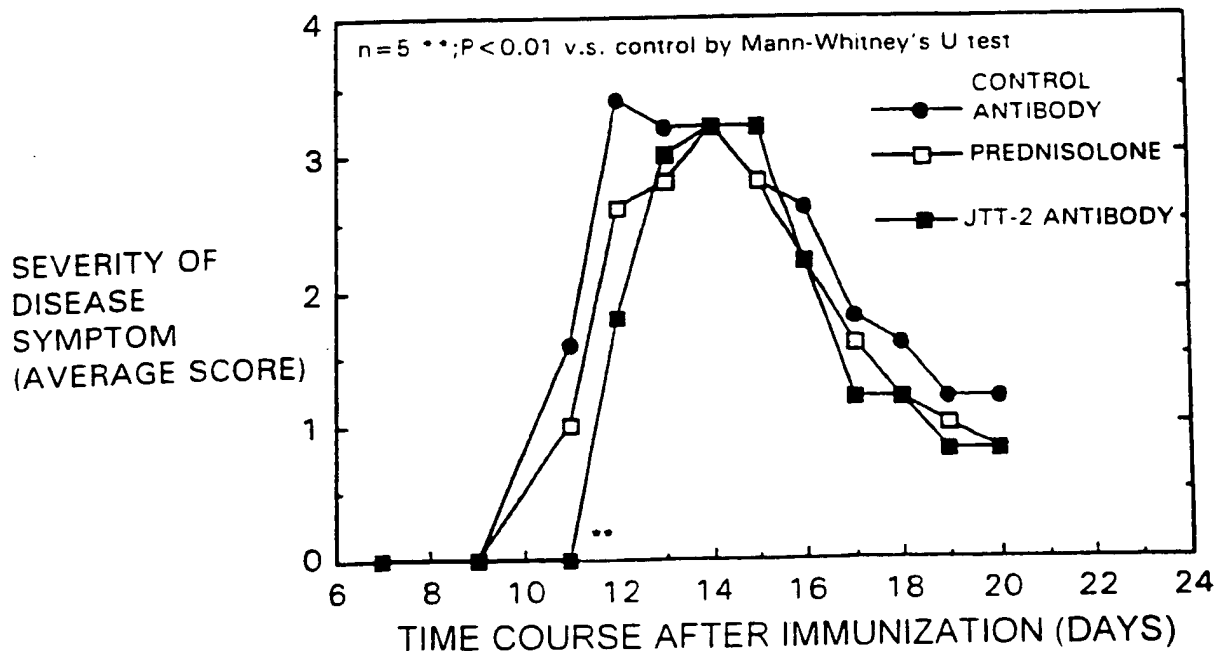


FIG. 16

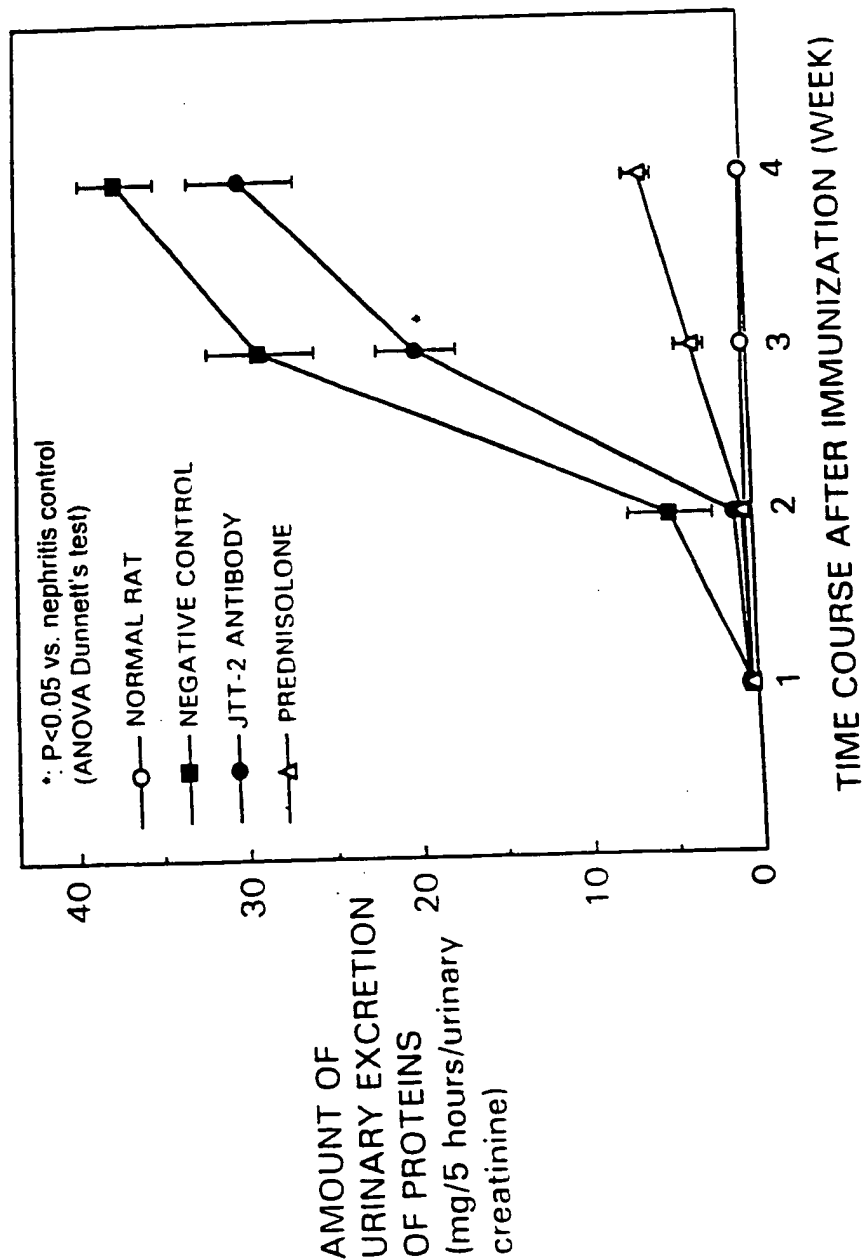


FIG. 17

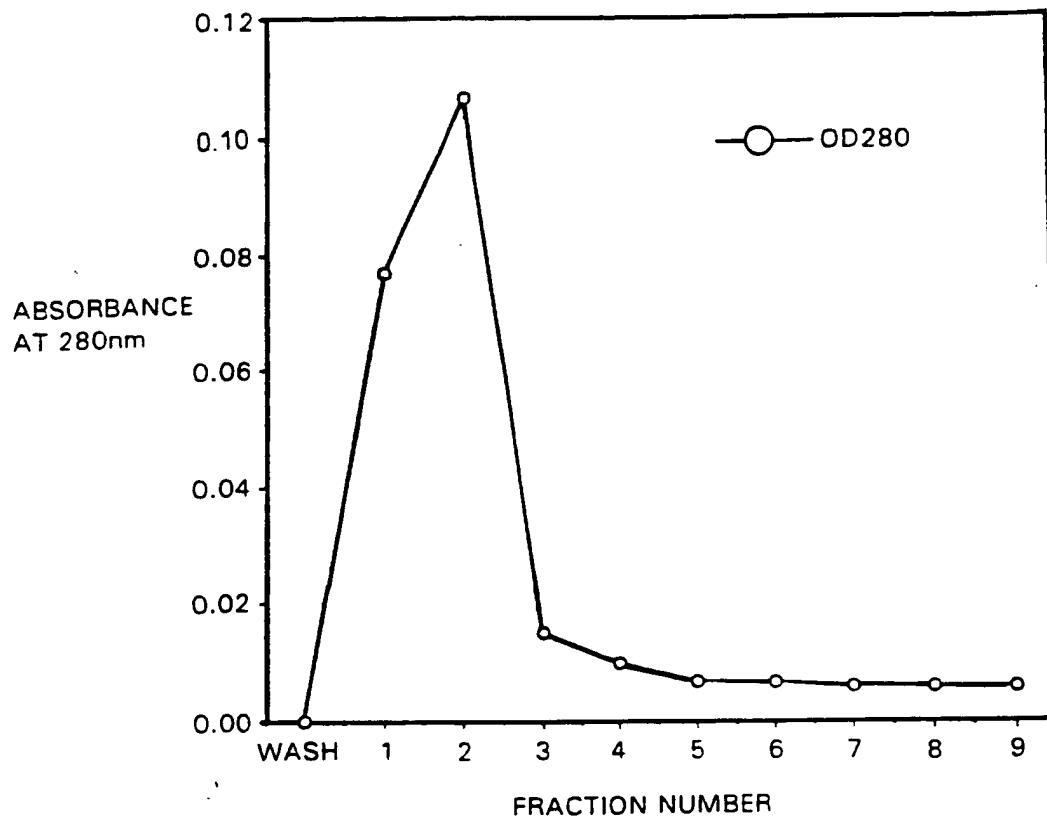


FIG. 18

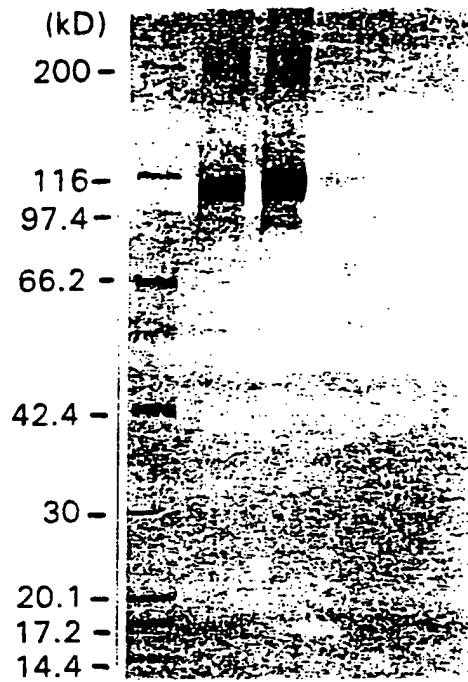


FIG. 19

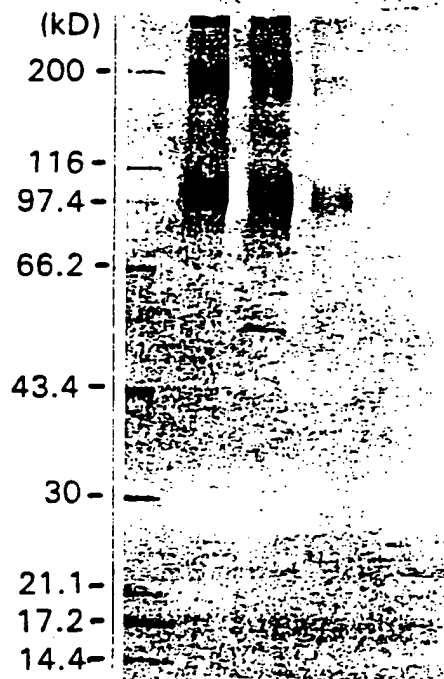


FIG. 21

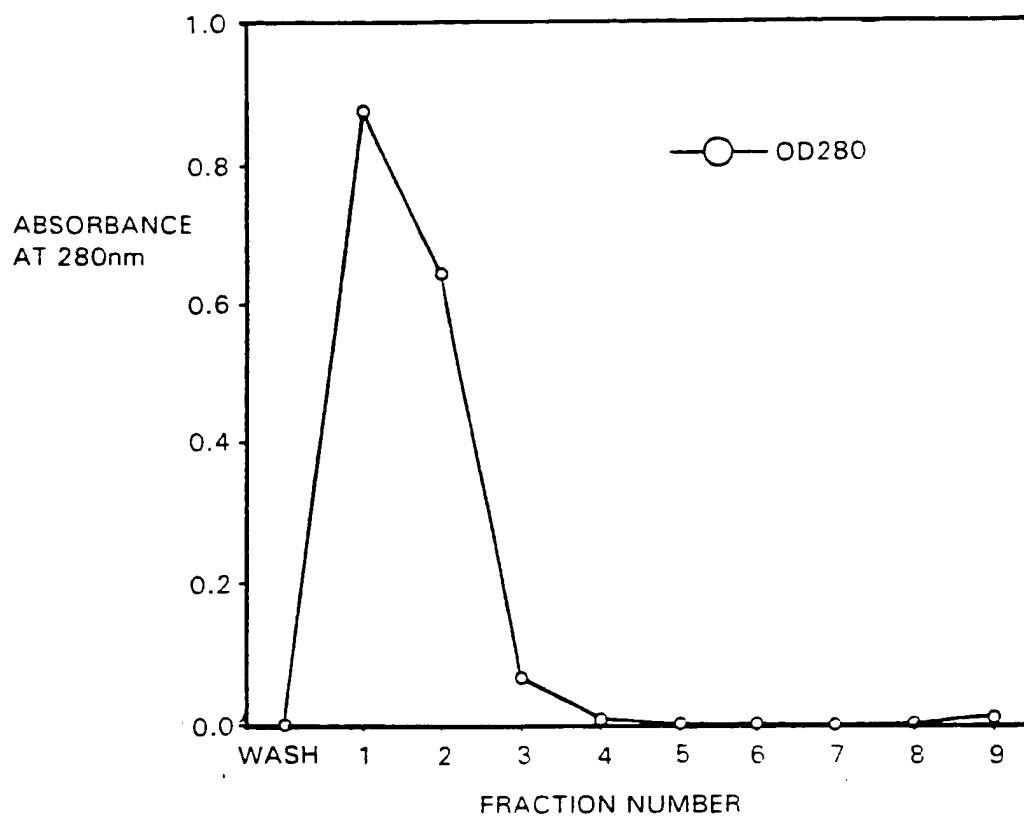


FIG. 20

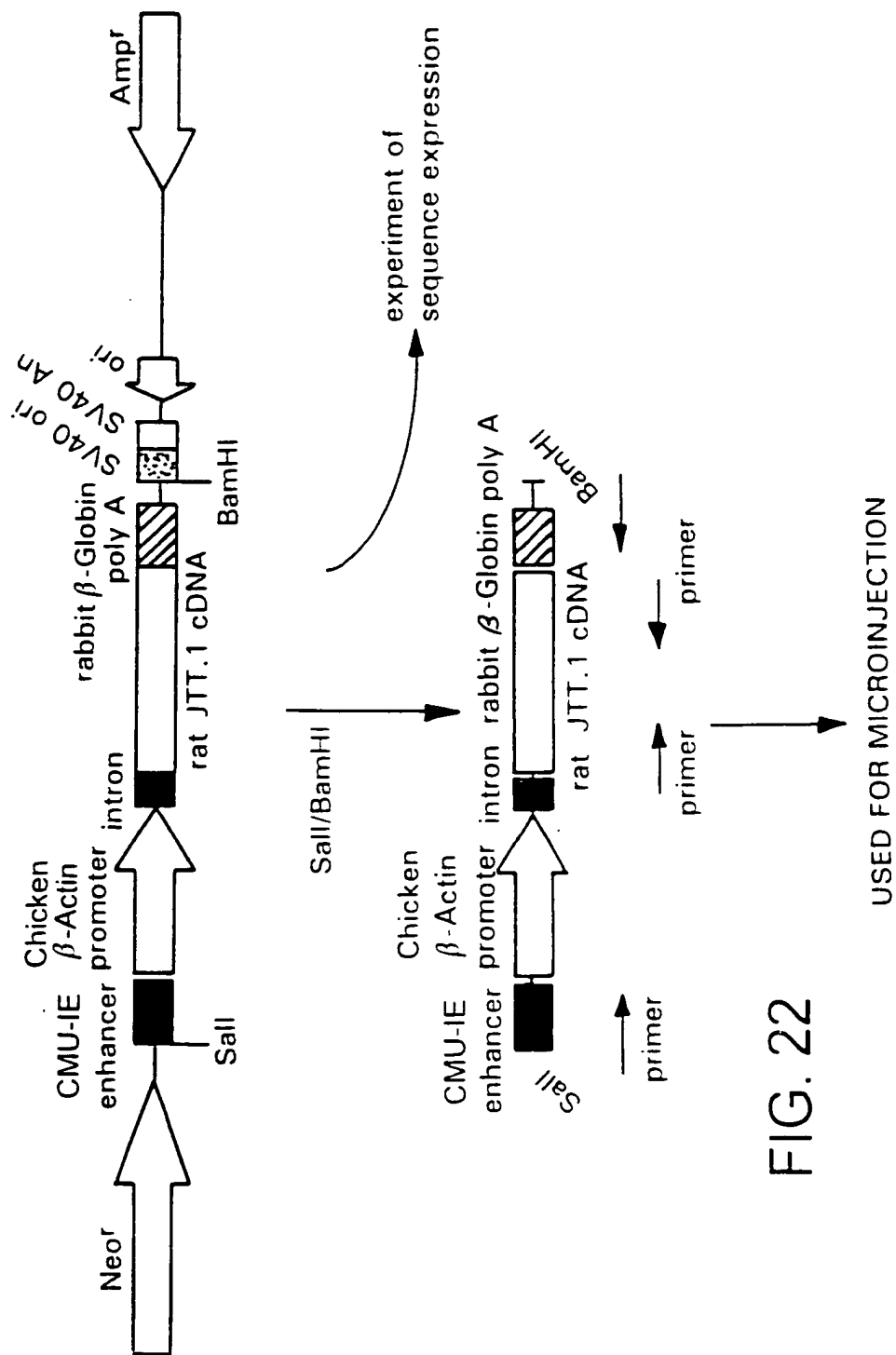


FIG. 22